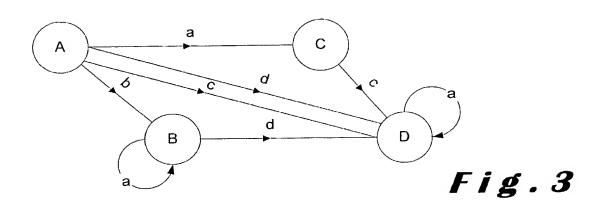


2/12



Current State / Incoming Event	State A	State B	State C	State D
Event a	New Sate: State C Action 1 Action 2 Timed Action 1	Action 7 Timed Action 2		Action 1
Event b	New State: State B Action 3 Timed Action 2 Timed Action 3			
Event c	New State: State D Action 4 Action 5 Action 6		New State: State D Action 4 Action 5	
Event d	New State: State D Action 5	New State: State D Action 3 Action 5		

Fig. 4

	Description
BPSE>	Global element for the business
	process state engine repository
<objecttypes></objecttypes>	Definition of object types
<objecttype xid="string"></objecttype>	Unique Ref ID of the object type
	(system generated)
<name>string</name>	Name of the object type
<pre><description>string</description></pre>	Description of the object type
<objecttype xid="string"></objecttype>	
<diagrams></diagrams>	Definition of state diagrams
<pre><diagram xid="string"></diagram></pre>	Unique Ref ID of the diagram (system
(Diagiam Aid Sciing)	generated)
<name>string</name>	Name of the diagram
<pre><description>string</description></pre>	
<pre><objecttyperef xid="string"></objecttyperef></pre>	Ref of the object type on which the
	diagram applies
<diagram xid="string"></diagram>	
<states></states>	
<pre><state xid="string"></state></pre>	Unique Ref ID of the state (system
State Ald String,	generated)
<name>string</name>	Name of the state
<pre><description>string</description></pre>	Description of the state
<pre><diagramref xid="string"></diagramref></pre>	Ref to the diagram to which the
	state belongs
<state xid="string"></state>	
<events></events>	
<pre><event xid="string"></event></pre>	Unique Ref ID of the event (system
Cavenc XId-Sciings	generated)
<name>string</name>	Name of the event
<pre><description>string</description></pre>	Description of the event
<pre></pre> <pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><p< td=""><td>Object type on which event is</td></p<></pre>	Object type on which event is
conjectification and serrings	applicable
<event xid="string"></event>	

Fig.5a

'Actions'	
<action xid="string"></action>	Unique Ref ID of the action
	(system generated) Name of the action
<name>string</name>	
<pre><description>string</description></pre> /Description	Object types on which action is
<objecttyperef xid="string"></objecttyperef>	applicable (optional)
<action xid="string"></action>	
<timedactions></timedactions>	
<timedaction xid="string"></timedaction>	Unique Ref ID of the timed action (system generated)
<name>string</name>	Name of the timedaction
<pre><description>string</description></pre>	Description of the timed action
<objecttyperef xid="string"></objecttyperef>	Object types on which timed action is applicable (optional)
<timeout>string</timeout>	Time when action(s) will fire (dd hh:mm)
<actions></actions>	Action(s) that will fire when timeout expires
<action xid="string"></action>	Ref to the action to be fired
<timedaction xid="string"></timedaction>	
<transitions></transitions>	
<transition xid="string"></transition>	
<triggeringevent xid="string"></triggeringevent>	Ref to the event that triggers the transition
<diagram xid="string"></diagram>	Ref to the state digram to which t transition belongs
<source xid="string"/>	Ref to the source state of the transition
<target xid="string"></target>	Ref to the target state of the transition
<actions></actions>	Ref to the actions to be taken whe transition occurs
<action xid="string"></action>	
<timedactions></timedactions>	Ref to timed actions to be schedul
<timedaction xid="string"></timedaction>	

Fig.5b

Element	Description
<eventmessage></eventmessage>	Global element for the event message
<header></header>	Event header information
<origin>string</origin>	Origin (system that generated the message on the bus)
<messagedatetime>string<td>When the message was sent (DD-MM-YYY HH:MM:SS)</td></messagedatetime>	When the message was sent (DD-MM-YYY HH:MM:SS)
<eventtype>string</eventtype>	What type of event
<eventdatetime>string</eventdatetime>	When the orginal event was created (DD-MM-YYY HH:MM:SS)
<location>string</location>	Where the event was created
<user>string</user>	Who created the event
<reason>string</reason>	Why the event was created
<method>string</method>	How the event was created
<objecttype>string</objecttype>	Object type on which the event applies
<objectid>string</objectid>	Object ID on which the event applied
<object></object>	Specific Object data associated with the event - format specific to the object type
<objectdata1><objectdata1></objectdata1></objectdata1>	Object specific data
<objectdatan><objectdatan></objectdatan></objectdatan>	Object specific data

Fig.5c

Element	Description
<actionmessage></actionmessage>	Global element for the action
	message
<header></header>	Action header information
<origin>string</origin>	Origin (system that generated the message on the bus)
<pre><messagedatetime>string</messagedatetime></pre>	When the message was sent (DD-MM-YYY HH:MM:SS)
<pre><actiontype>string</actiontype></pre>	What type of action
<reason>string</reason>	Why the action was triggered
<objecttype>string</objecttype>	Object type on which the action applies
<objectid>string</objectid>	Object ID on which the action applies
<object></object>	Specific Object data associated with the event - format specific to the object type
<objectdatal><objectdatal></objectdatal></objectdatal>	Object specific data
<objectdatan><objectdatan></objectdatan></objectdatan>	Object specific data

Fig.5d

7/12

	Entities>Object t	vnes	
Object types Events Actions Times Actions State Diagrams States	Object Type Editor		
	Name Description	Üpdaté	ો ૄાDelete
	Name	Description	
	Package Order CSTask	Package Shipping Order Customer Service Task	

Fig. 6

Object types Events Actions Times Actions State Diagrams States	Entities>Events		
		Event Editor	
	Name Description Object type		
	New (Update (1)	Delete A
	Name	Description	Object type
	Created CarrierIntransit CarrierPOD CPScanIn DeliveredUser	Package created Carrier in transit Carrier proof of delivery Scan in by CP Delivered to User	Package Package Package Package Package

Fig. 7

8/12 State Engine Editor Entities Diagrams Repository Entities>Actions Object types **Events Action Editor Actions Times Actions** Name State Diagrams Description <u>States</u> Object type ₩. ~ New ™ ™ - Update Delete Description Name Object type LogEvent Log event <u>CarrierCollect</u> Notify Carrier to collect Package **NotifyUser** Send message to recipient Package

Fig.8

Object types Events Actions Times Actions State Diagrams States	Entities>TimedAction	S	
		Timed Action Editor	
	Name Description Object type Timer (dd hh:mm) Generic Actions		
	Object Specific Actions		
	New T.	Update .	Delete
	Name De	escription	Object type
	<u>DeliveryLate</u> De	elivery package uncollected elivery delayed eturn not collected by carrier	Package Package Package

Fig.9

9/12

Object types Events Actions Times Actions State Diagrams States	Entities>StateD	iagrams .	
		State Diagram Edito	or
	Name Description Object type		
	New &	Updatë 🤼	Delete
	Name	Description	Object type
	PkgDelivery PkgReturn PickProcess	Package Delivery flow Package return flow Package picking flow	Package Package Order

Fig. 10

Entities Diagran			
Object types	Entities>States		
Events		State Editor	
Actions Times Actions State Diagrams States	Name Description		
	State Diagram		
	New 🔛	Üpdate	Delete:
	Name	Description	State Diagram
	Created InTransit DeliveredCP DeliveredUser	Package created Package in transit Package delivered in CP Package delivered to user	PkgDelivery PkgDelivery PkgDelivery PkgDelivery

Fig. 11

ate Engine Editor Entities Diagr	ams Repository		_
PkgDelivery	Diagrams>PkgDelivery>	Created	
PkgReturn		Transition Editor	
<u>PickProcess</u>	Triggering Event Target State Generic Actions		
Source State		Smy t	-
None Created InTransit	Object Specific Actions		
DeliveredCP DeliveredUser	Generic Timed Actions		
	Object Specific Timed Actions		
	New 2	Update	
	Triggering Event	Target State	$\overline{\ \ }$
	Created CarrierIntransit CarrierPOD CPScanIn DeliveredUser	Created InTransit DeliveredCP DeliveredCP DeliveredUser	

Fig. 12

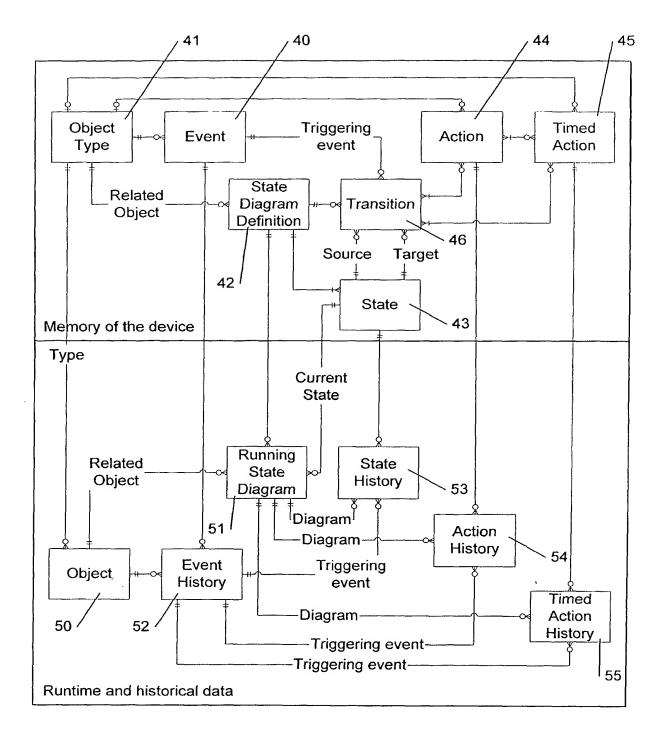


Fig. 13

